

- 1 Figure 4 is added to show a typical alternate location for the host metal.
2 Figure 5 was Figure 3.
3 Figure 6 is added to show the arrangement of the 'scanning' reactor.
4 Figure 7 is added to visualize the broad operating range of the present invention.
5 Figure 8 is added to incorporate the "D-Pd TCP Equilibrium Diagram" into the Specification
6 rather than relying on Reference 4 to show the equilibrium data.
7 Figure 9 is added to show experimental data in terms of power density.
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9 IN THE CLAIMS:

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11 Claim 1 is modified to add reference to 'elevated system free energy states' for dependent claims
12 of methods.
13 Claim 2 was deleted by an earlier amendment.
14 Claim 3 is modified to correct the format of the claim and to delete an unnecessary statement.
15 Claim 4 is modified to correct the format of the claim.
16 Claims 5 through 16 are unchanged.
17 Claim 17 is deleted since the 'deposited form' is a 'solid' form of the host metal and therefore is
18 covered by claim 19.
19 Claims 20 claims the method of operating the system of claim 1.
20 Claims 21 claims the method of operating the system of claim 3.
21 Claim 22 claims the system for measuring the threshold chemical potential and the heat rate of
22 the host metal.
23 Claim 23 claims the method of producing high deuterium chemical potentials using the system of
24 claim 22.
25 Claim 24 claims the method for measuring the threshold chemical potentials of candidate host
26 metals using the system of claim 22.
27 Claim 25 claims the method for measuring the heat generation rates of the candidate host metals
28 using the system of claim 22.
29 Claim 26 claims the method of generating heat using the system of claim 1.
30 Claim 27 claims the method of generating heat using the system of claim 3.

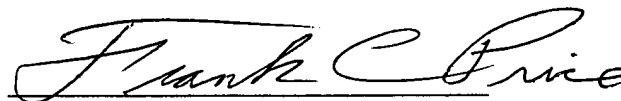
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2 The claims are presented in the new and the marked-up versions attached.

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4 For purposes of examination: (1) claims 1, 3, 4, and 18 through 27 read on palladium as
5 the elected ultimate host metal; (2) claims 1, 3 through 16 and 20 through 27 read on powder as
6 the elected ultimate form of host metal. Note that we now elect the 'powdered' form as the
7 ultimate form of the host metal instead of the 'deposited' form.

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9 REMARKS

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11 Remarks about the examiner's comments in the Office action letter are enclosed along
12 with 12 enclosures. It is recommended that the Examiner read Enclosure 5 "This Invention vs
13 Prior Art" before starting the examination to save time.

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16 Respectfully submitted,

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19 Frank C. Price
20 Reg. No. 29,841
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